

Serial No. 10/050,103

LISTING OF CLAIMS:

The following listing of claims replaces all previous versions, and listings of claims in the present application.

1. (Currently amended) A method of fabricating a hologram screen, comprising: ~~the steps of~~
~~preparing~~ arranging at least a mirror a plurality of mirrors to be arranged at an end
~~portion or in the neighborhood of an end portion of a light diffuser and to be arranged at a side of~~
~~a light source of a reference beam~~ , ~~each of said mirror plurality of mirrors~~ being extended
toward ~~each of a plurality of photosensitive members, respectively, such that a reference beam~~
~~generated from the light source reaches said each of said plurality of photosensitive members~~
~~without being shielded by said each of said plurality of mirrors;~~

forming a plurality of holograms by successively exposing a plurality of said each
of said plurality of photosensitive members individually using at least a said reference beam and
a plurality of object beams passed through said light diffusers; and

two-dimensionally arranging and integrating a plurality of said holograms thereby
to form a hologram screen,

wherein, in said successively exposing said each of said plurality of
photosensitive members, the mirror one of said plurality of mirrors arranged nearer to the light
~~source of the reference beam~~ is replaced with ~~a mirror~~ another of said plurality of mirrors having
a different length of extension from said light diffuser in accordance with the position of said
each of the plurality of photosensitive members to be exposed individually thereby to expose
~~said each of the plurality of photosensitive member members without being shielded by the each~~
of the plurality of mirrors.

2. (Currently amended) A method of fabricating a hologram screen according to claim 1,

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wherein the ~~a~~ length of extension of ~~said reference beam side mirror~~ by which
said each of said plurality of mirrors extends toward said each of said plurality of photosensitive
members is set to a larger value when exposing ~~the photosensitive member~~ one of said plurality
of photosensitive members arranged nearer to the light source of said reference beam than when
 exposing ~~the photosensitive member~~ another of said plurality of photosensitive members
 arranged farther from the light source of said reference beam.

3.-8. (Canceled)

9. (Currently amended) A hologram imaging apparatus for successively exposing a plurality of
 photosensitive members when fabricating a hologram screen by radiating at least a reference
 beam generated from a light source and a plurality of object beams passed through a light
 diffuser individually on a said plurality of said photosensitive members, respectively, thereby to
 form a plurality of holograms, which are arranged and integrated with each other into a hologram
 screen, the apparatus comprising:

means for successively holding a said plurality of said photosensitive members at
 positions corresponding to the positions for subsequent arrangement and integration; and

a plurality of mirrors to be successively arranged to extend toward said plurality
of photosensitive members at or in the neighborhood of an end portion of said light diffuser and
to be arranged at a side of the light source such that a reference beam generated from the light
source is not shielded by successive ones of said plurality of mirrors when each of said
successive ones are arranged at said end portion of said light diffuser;

~~wherein the reference beam side mirror arranged nearer to the light source~~
~~of said reference beam is so configured that the length of extension thereof from said light~~

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~~diffuser can be changed~~ one of said plurality of mirrors is replaced with another of said plurality of mirrors having a different length of extension from said light diffuser in accordance with a position of each of said plurality of photosensitive members to be exposed individually thereby to expose one of said plurality of photosensitive members.

10. (Currently amended) A hologram imaging apparatus according to claim 9,

~~wherein said reference beam side mirror can be replaced with another mirror having a different length of extension~~ a length of extension of said one of said plurality of mirrors is set to a larger value when exposing said one of said plurality of photosensitive members arranged nearer to the light source of said reference beam than when exposing another of said plurality of photosensitive members arranged farther from the light source of said reference beam.

11. (Canceled)

12. (New) A method of fabricating a hologram screen, comprising:

preparing a plurality of mirrors for arrangement at an end portion of a light diffuser and at a side of a light source of a reference beam, each of the plurality of mirrors extending toward each of a plurality of photosensitive members, respectively, such that each of the plurality of mirrors does not shield the respective each of the plurality of photosensitive members from the reference beam;

forming a plurality of holograms by successively exposing the each of the plurality of photosensitive members using the reference beam and a plurality of object beams passed through the light diffuser; and

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arranging and integrating the plurality of holograms in two-dimensional relation to form the hologram screen,

wherein, in the successively exposing the each of the plurality of photosensitive members, one of the plurality of mirrors is replaced with another of the plurality of mirrors having a different length of extension from the light diffuser in accordance with the position of the each of the plurality of photosensitive members thereby to expose the each of the plurality of photosensitive members without being shielded by the another of the plurality of mirrors.

13. (New) A method of fabricating a hologram screen according to claim 12,

wherein a length of extension by which the each of the plurality of mirrors extends toward the each of the plurality of photosensitive members is set to a larger value when exposing one of said plurality of photosensitive members arranged nearer to the light source of the reference beam than the length of extension when exposing another of said plurality of photosensitive members arranged farther from the light source of said reference beam.

14. (New) A hologram imaging apparatus successively exposing a plurality of photosensitive members when fabricating a hologram screen by radiating at least a reference beam generated from a light source and a plurality of object beams passed through a light diffuser individually on the plurality of photosensitive members, respectively, thereby to form a plurality of holograms, arranged and integrated with each other into a hologram screen, the apparatus comprising:

a holder configured to successively hold each of the plurality of photosensitive members at respective positions corresponding to positions for the arrangement and integration;
and

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a plurality of mirrors to be successively arranged to extend toward the plurality of photosensitive members at an end portion of the light diffuser and to be arranged at a side of the light source such that a reference beam generated from the light source is not shielded by successive ones of the plurality of mirrors when each of the successive ones are arranged at the end portion of the light diffuser;

wherein one of the plurality of mirrors is replaced with another of the plurality of mirrors having a different length of extension from the light diffuser in accordance with a position of the each of the plurality of photosensitive members thereby exposing the each of the plurality of photosensitive members.

15. (New) A hologram imaging apparatus according to claim 14, wherein

a length of extension of the one of said plurality of mirrors is set to a larger value when exposing the one of the plurality of photosensitive members arranged nearer to the light source of the reference beam than the length of extension when exposing another of the plurality of photosensitive members arranged farther from the light source of the reference beam.